

FIG. 1

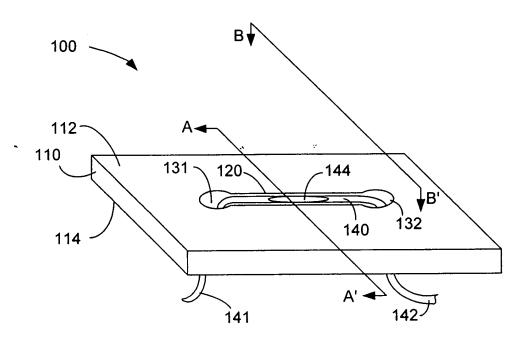
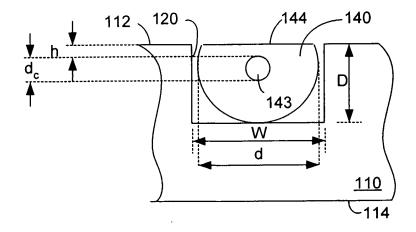


FIG. 2A



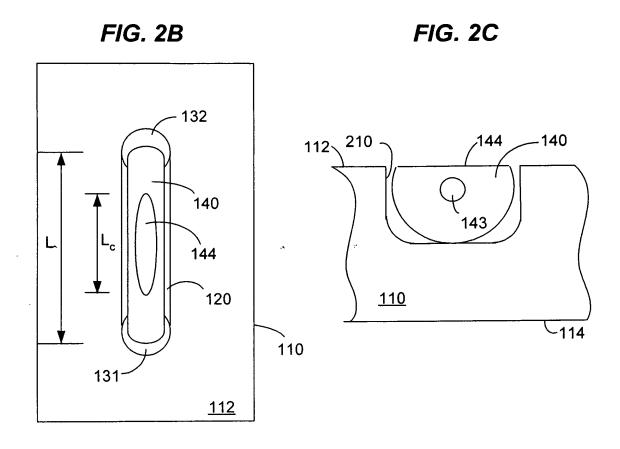


FIG. 2D

FIG. 2E

FIG. 3A

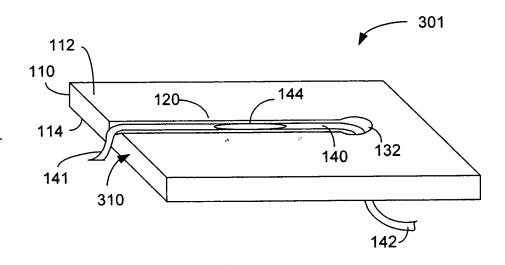
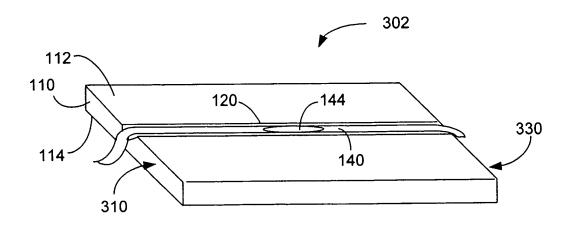
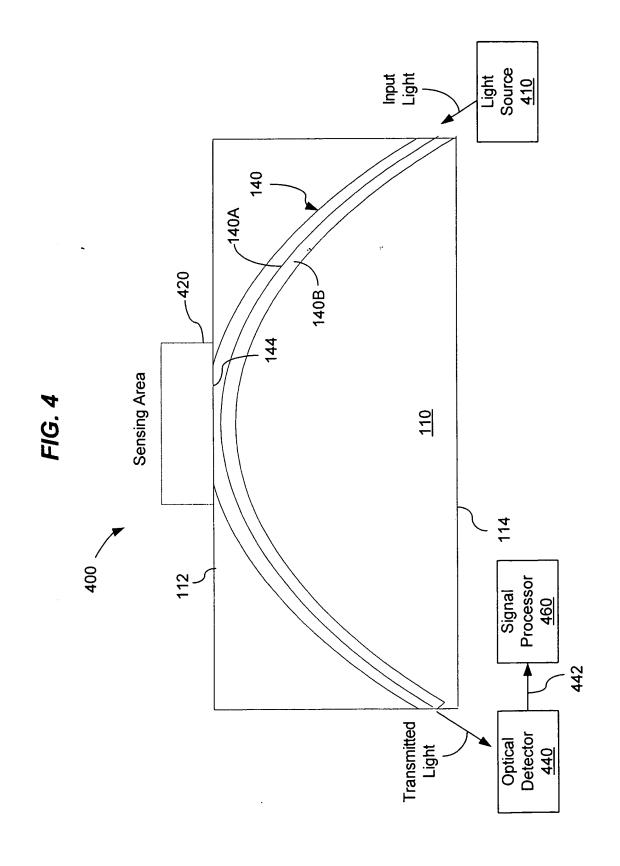


FIG. 3B

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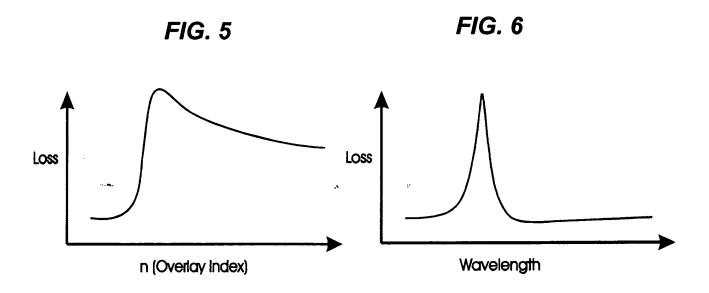


FIG. 7A

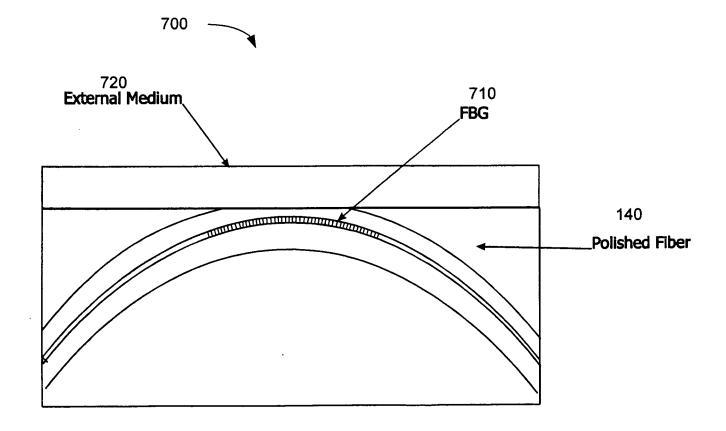
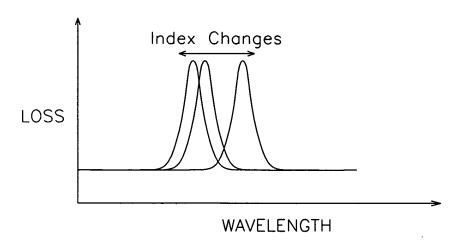


Figure 7B



800 Figure 8A

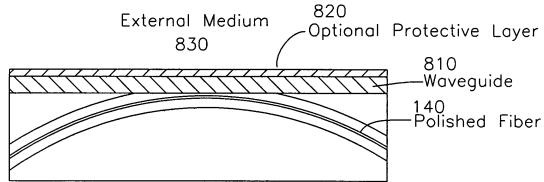
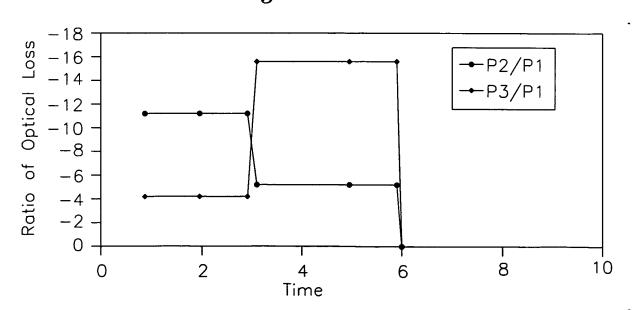
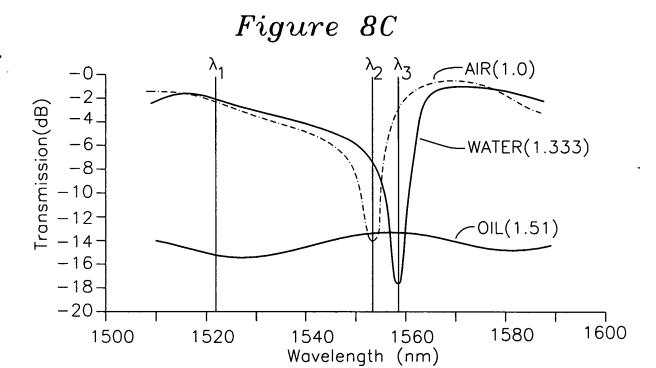
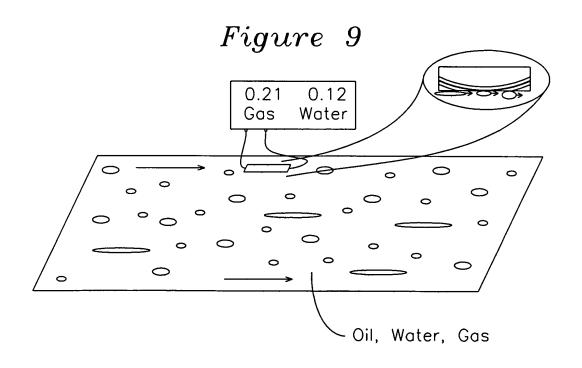


Figure 8B







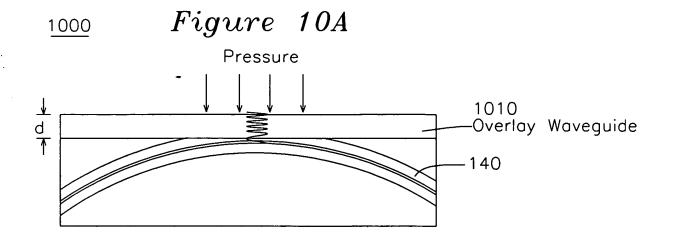
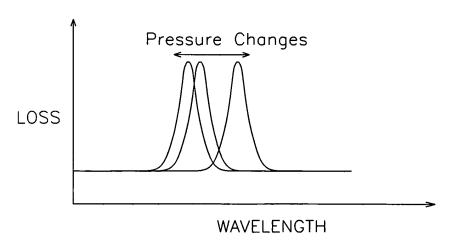
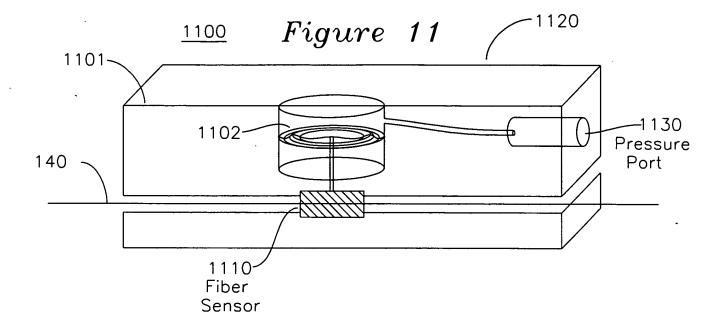
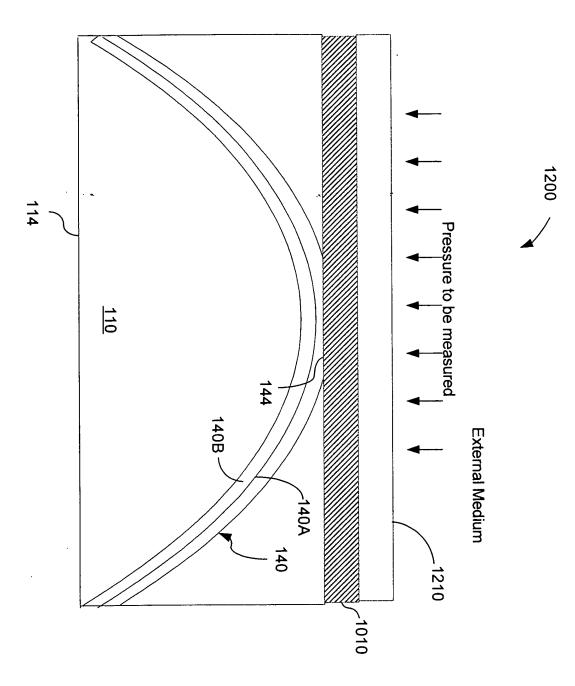


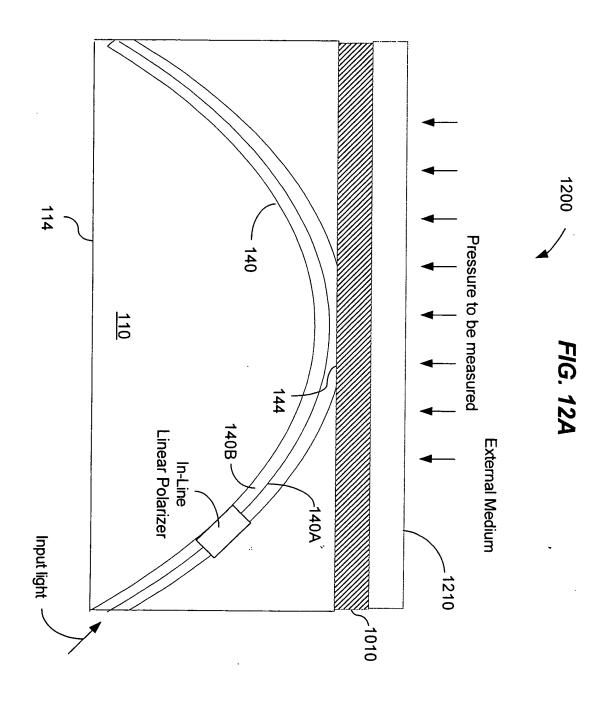
Figure 10B







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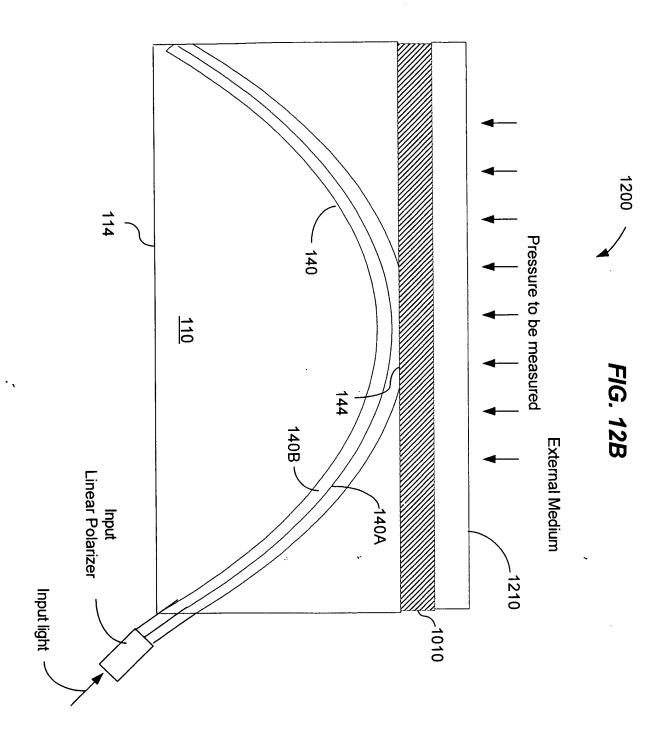


Figure 13A

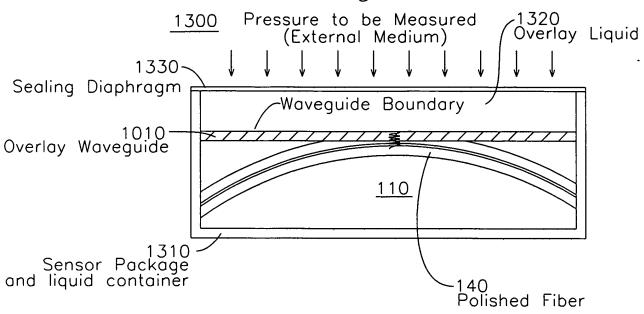
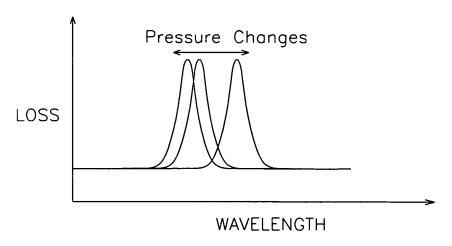
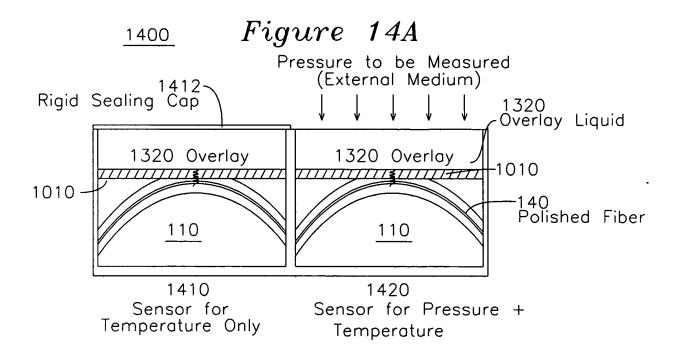
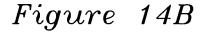


Figure 13B







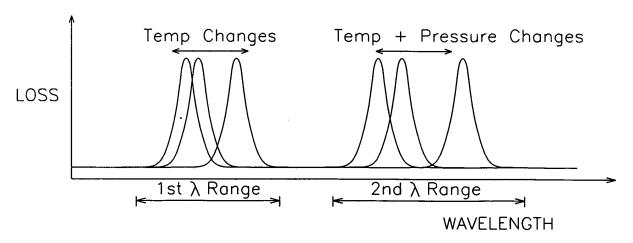


FIG. 15A

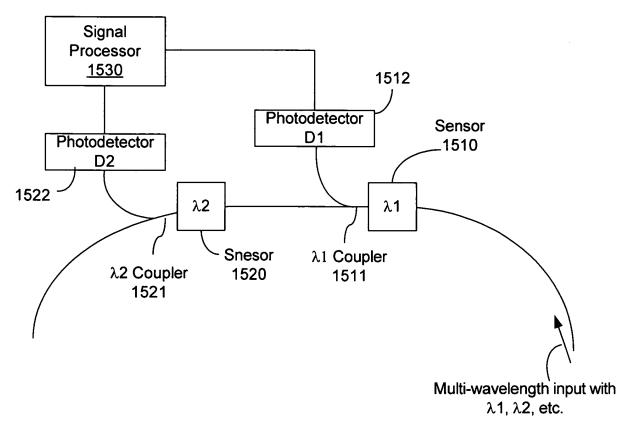


FIG. 15B

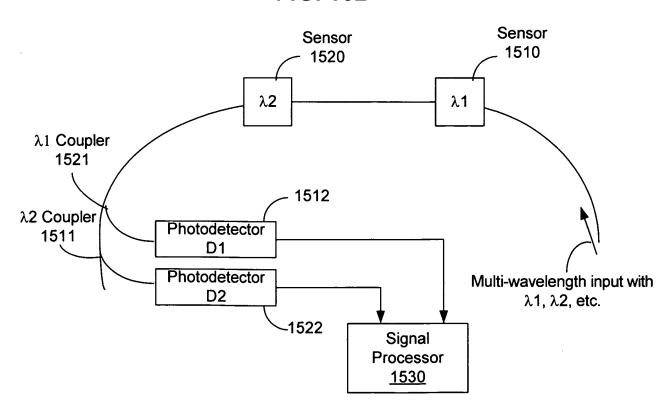


FIG. 16

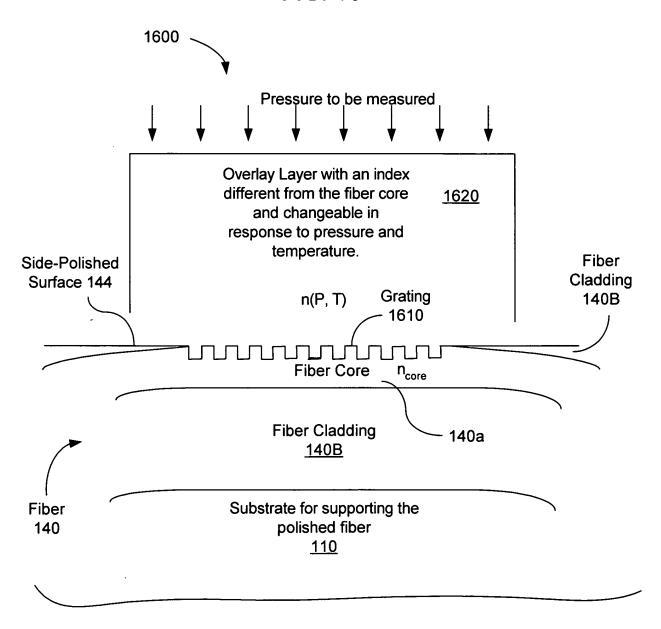


FIG. 17

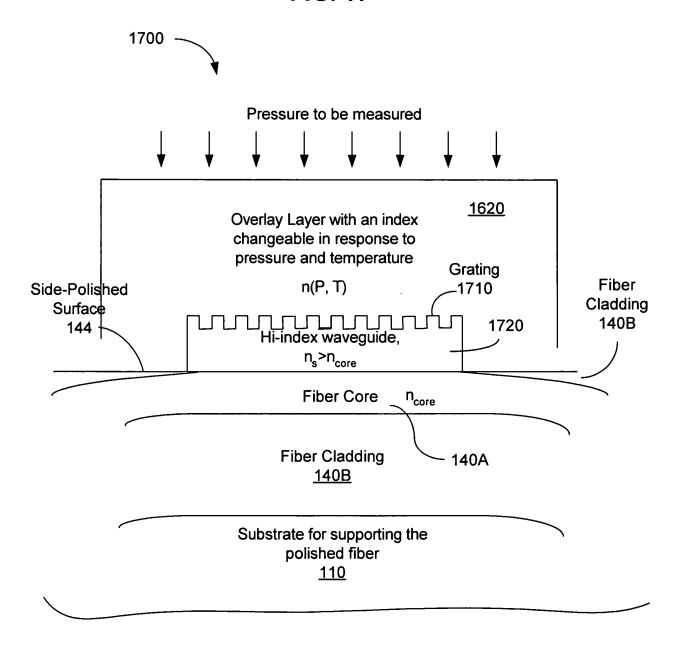


Figure 18A

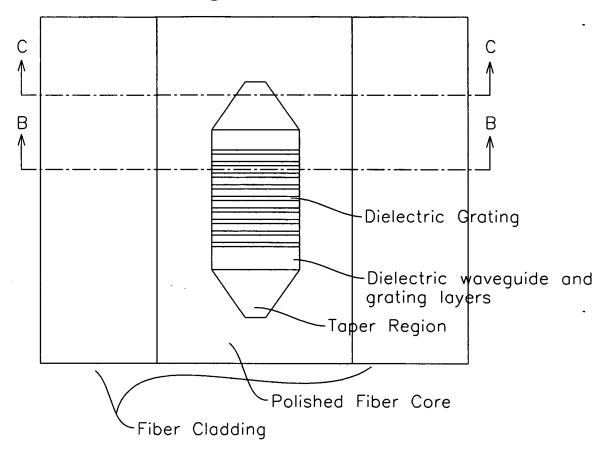


Figure 18B

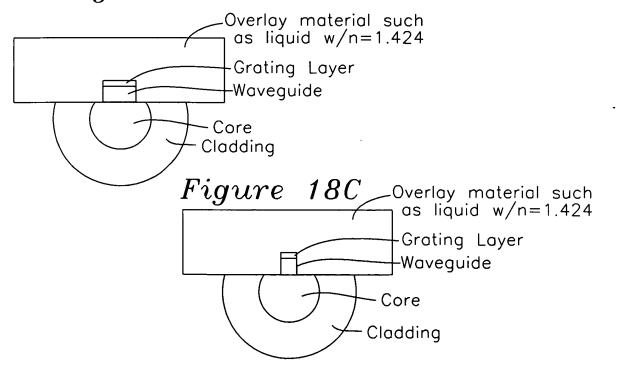
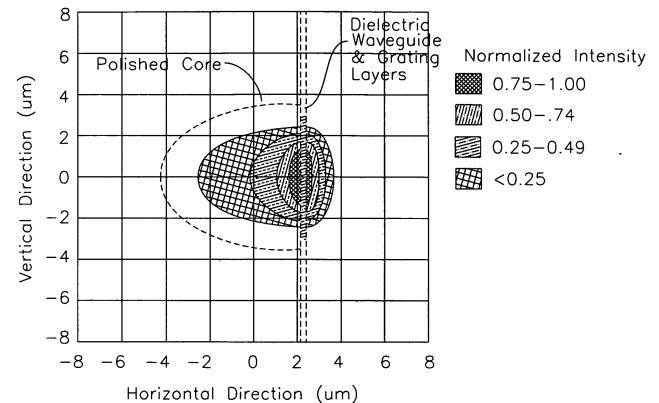
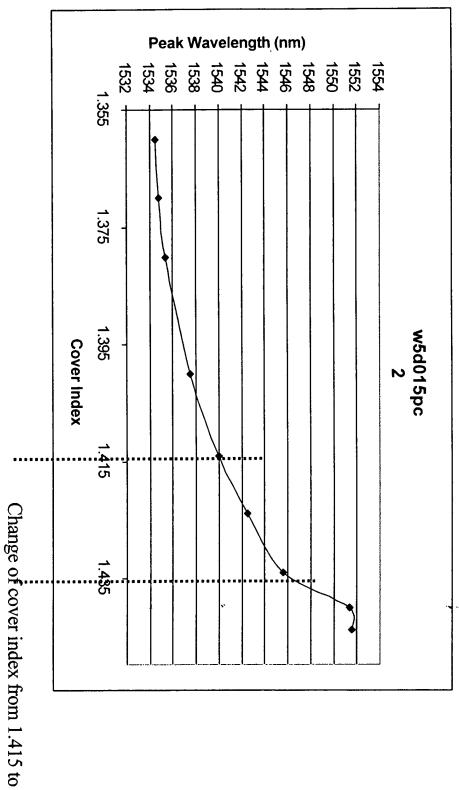


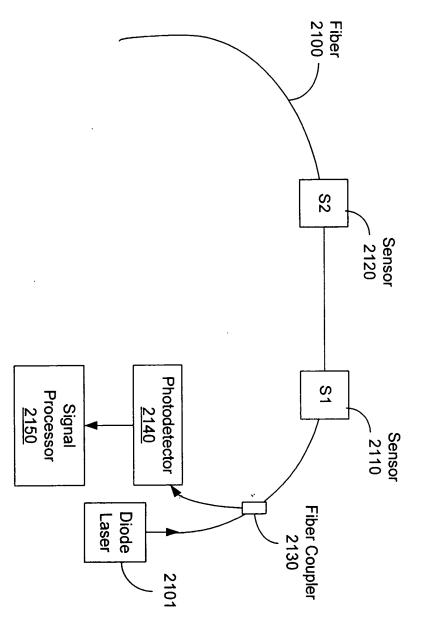
Figure 19

Computed Transverse Mode Profile (m=0, n_{eff}=1.455242, 2.067e-9)





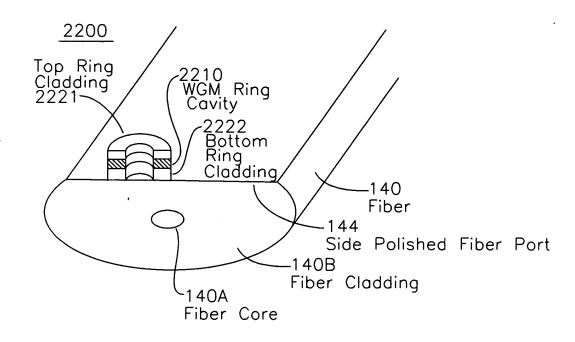
1.435 can result in a shift of reflection peak from 1540 to 1546nm. The 1/10000 of the shift can be easily detected by many commercial wavelength meter.

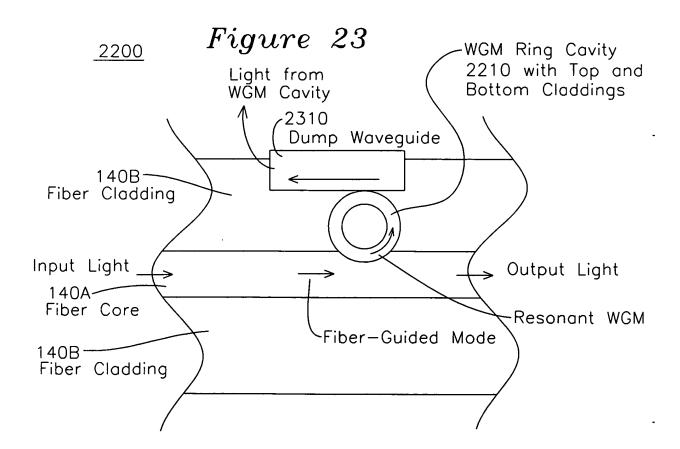


IG. 21

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Figure 22





2400 Top View

One pair of WGM cavities One pair of WGM cavities WGM WGM WGM WGM Cavity 1 Cavity 2 Cavity 3 Cavity 4 evanescent no evanescent coupling point coupling -evanescent coupling point Light travelling backwards -Polished Fiber Light travelling forwards

Input Light